

## IUBMB Enzyme Nomenclature

**EC 5.1.3.17**

**Recommended name:** heparosan-*N*-sulfate-glucuronate 5-epimerase

**Reaction:** heparosan-*N*-sulfate D-glucuronate = heparosan-*N*-sulfate L-iduronate

**Other name(s):** heparosan epimerase; heparosan-*N*-sulfate-D-glucuronosyl 5-epimerase; C-5 uronosyl epimerase; polyglucuronate epimerase; D-glucuronyl C-5 epimerase

**Systematic name:** poly[(1,4)- $\beta$ -D-glucuronosyl-(1,4)-*N*-sulfo- $\alpha$ -D-glucosaminyl] glucurono-5-epimerase

**Comments:** Acts on D-glucuronosyl residues adjacent to sulfated D-glucosamine units in the heparin precursor. Not identical with [EC 5.1.3.19](#) chondroitin-glucuronate 5-epimerase.

**Links to other databases:** [BRENDA](#), [EXPASY](#), [KEGG](#), [WIT](#), CAS registry number:

**References:**

1. Jacobsson, I., Bäckström, G., Höök, M., Lindahl, U., Feingold, D.S., Malmström, A. and Rodén, L. Biosynthesis of heparin. Assay and properties of the microsomal uronosyl C-5 epimerase. *J. Biol. Chem.* 254 (1979) 2975-2982. [Medline UI: [79151034](#)]

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